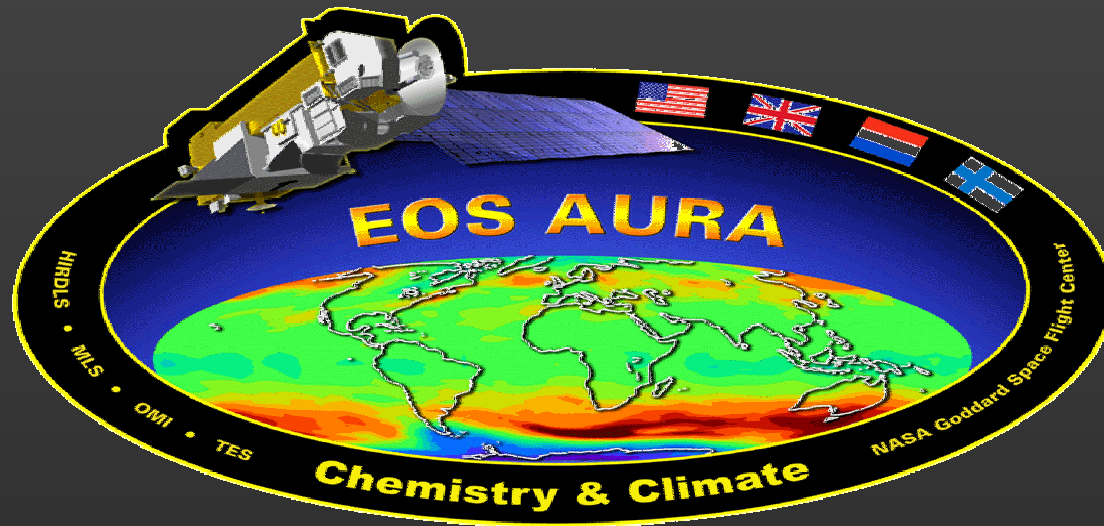
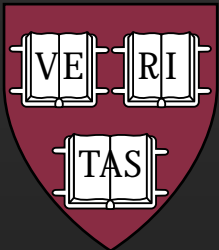


Global Observations of BrO from the Ozone Monitoring Instrument Status Update



Thomas P. Kurosu

Harvard-Smithsonian Center for Astrophysics
Cambridge, MA



Aura Validation Workshop
Boulder, CO, September 2006



Status of Product and Currently Known Issues

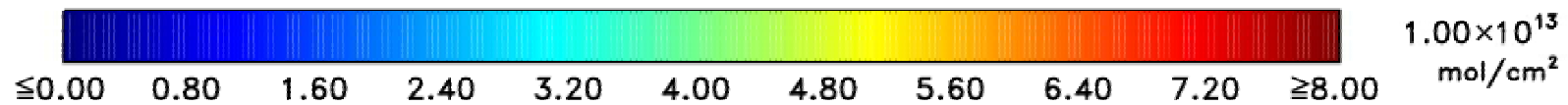
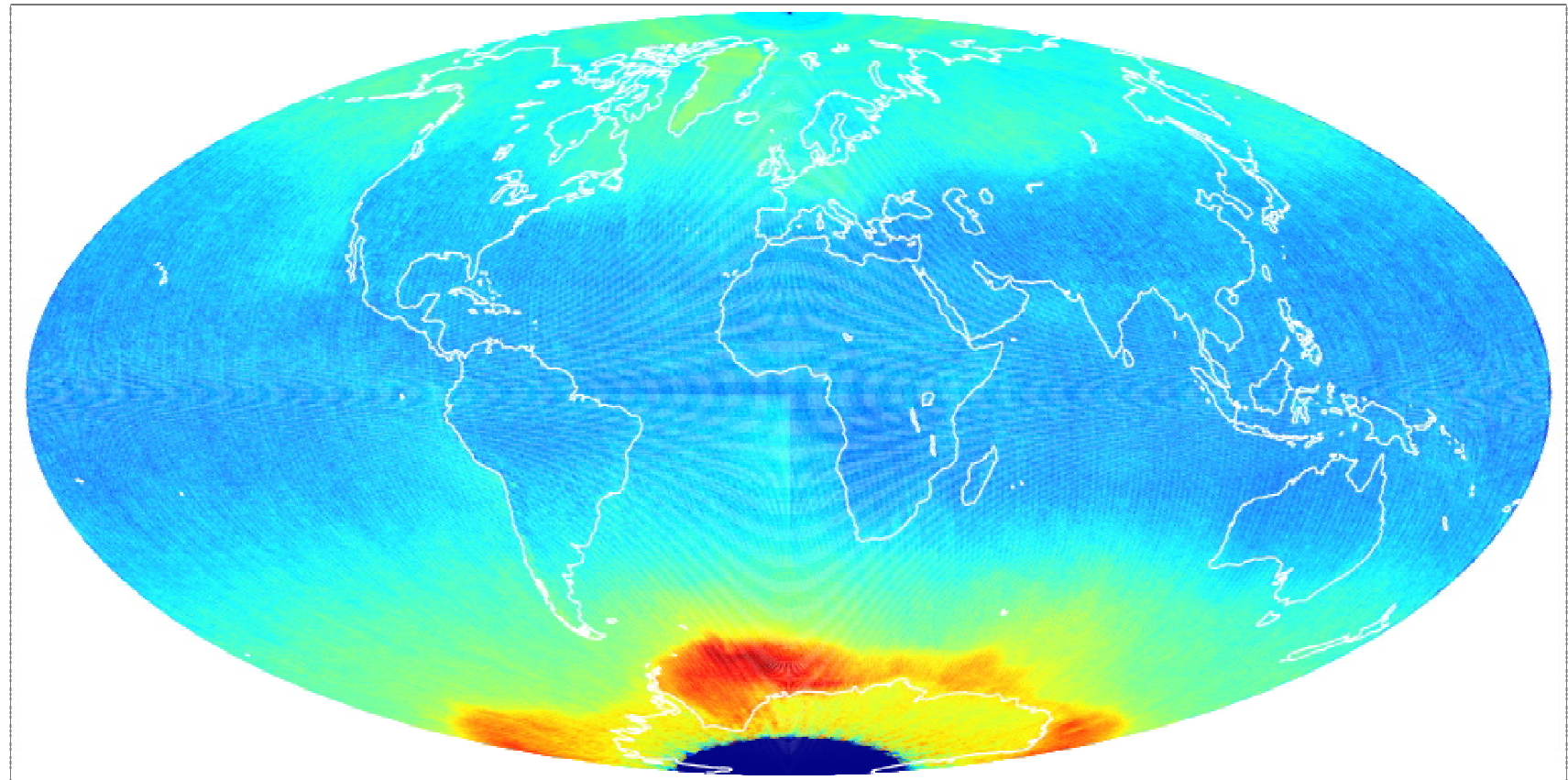
◆ BrO

- Provisionally released - public release in October 2006
- Current version: v0.9.50 (reprocessing is at ~1 July 2006)
- Older versions: \leq v0.9.46 should not be used since they are wrong (too low) by a factor of ~ 2 (hence the reprocessing)
- Monthly averages comparable to GOME
- Still some striping, but monthly averages are surprisingly smooth
- Some correlation with high albedo (clouds; ice)

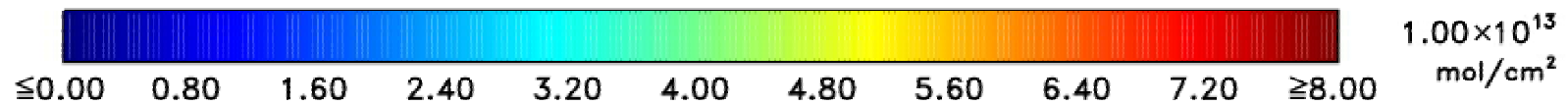
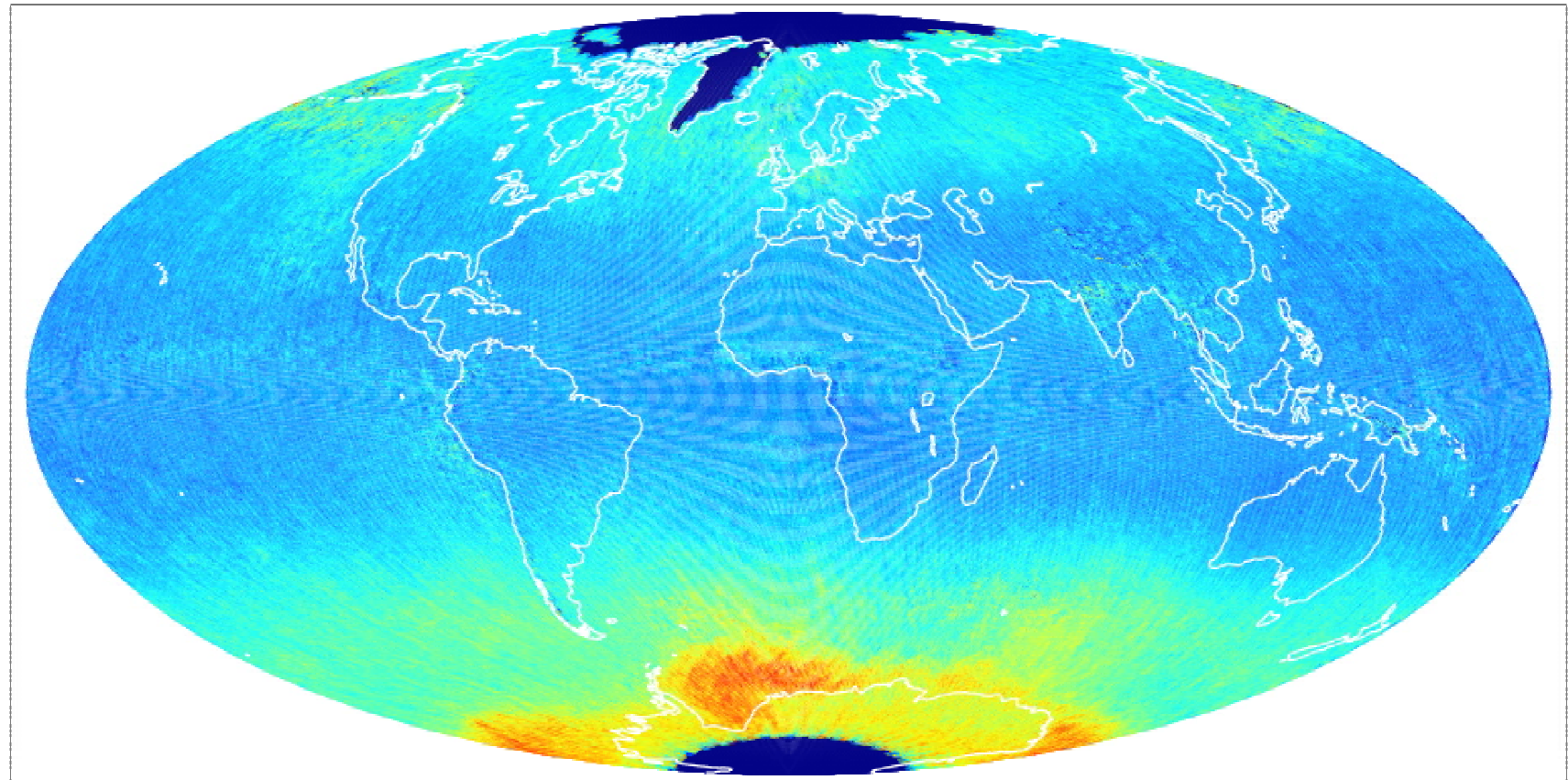
◆ Tropospheric BrO

- Bromine explosions on ice shelf – yes
- Bromine release from salt lakes – yes
- Bromine in volcanic plumes – still under investigation

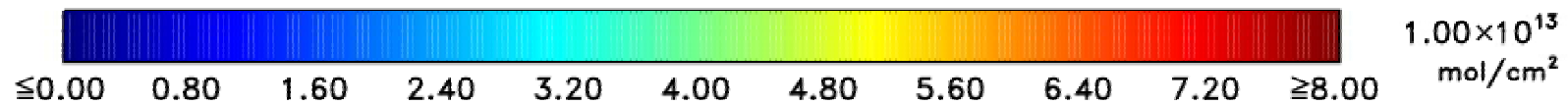
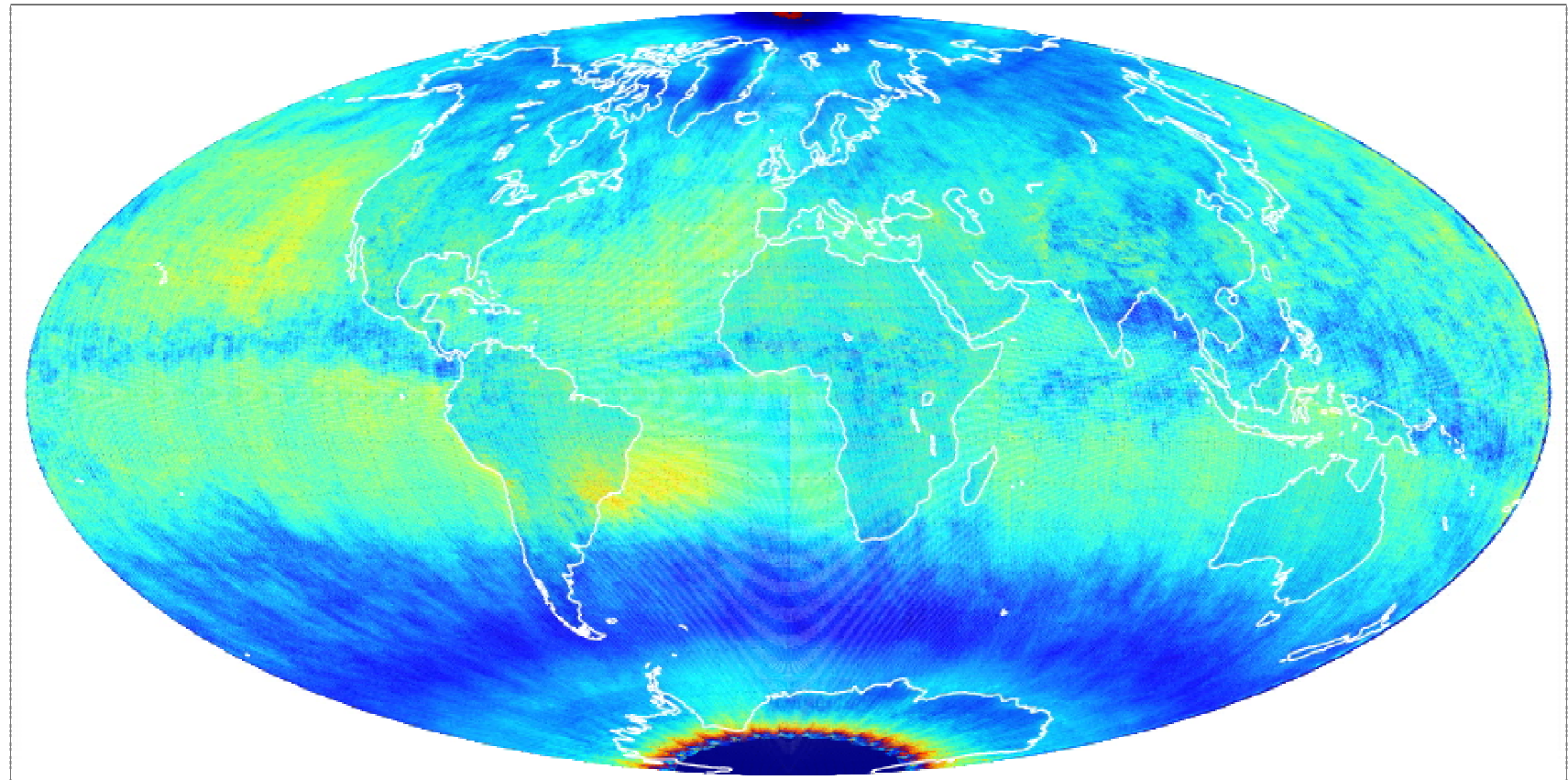
BrO August 2006 – no cloud screening



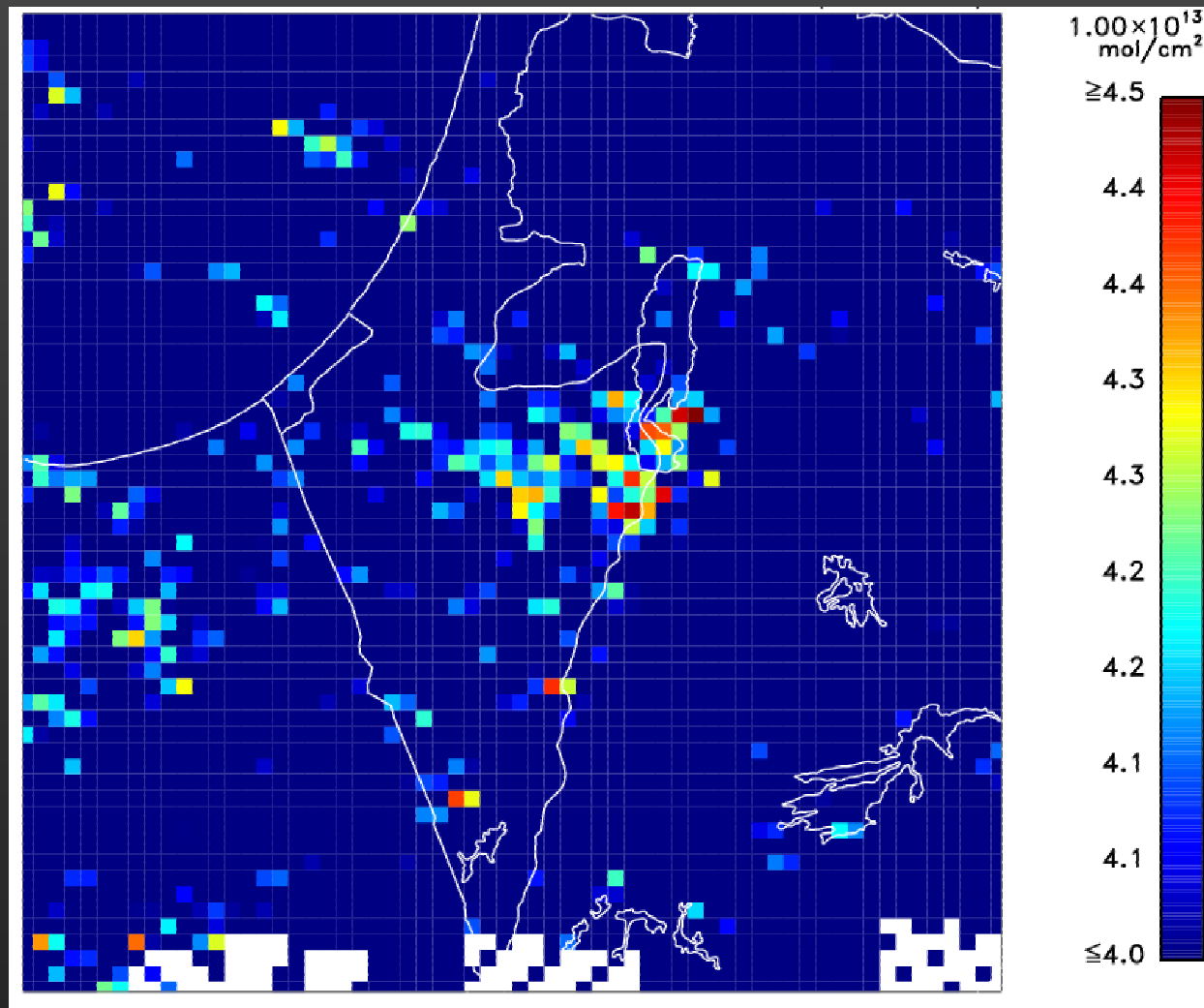
BrO August 2006 – cloud fraction $\leq 20\%$



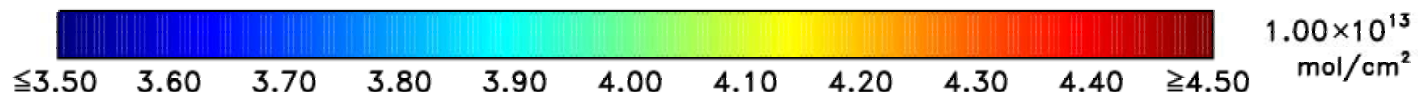
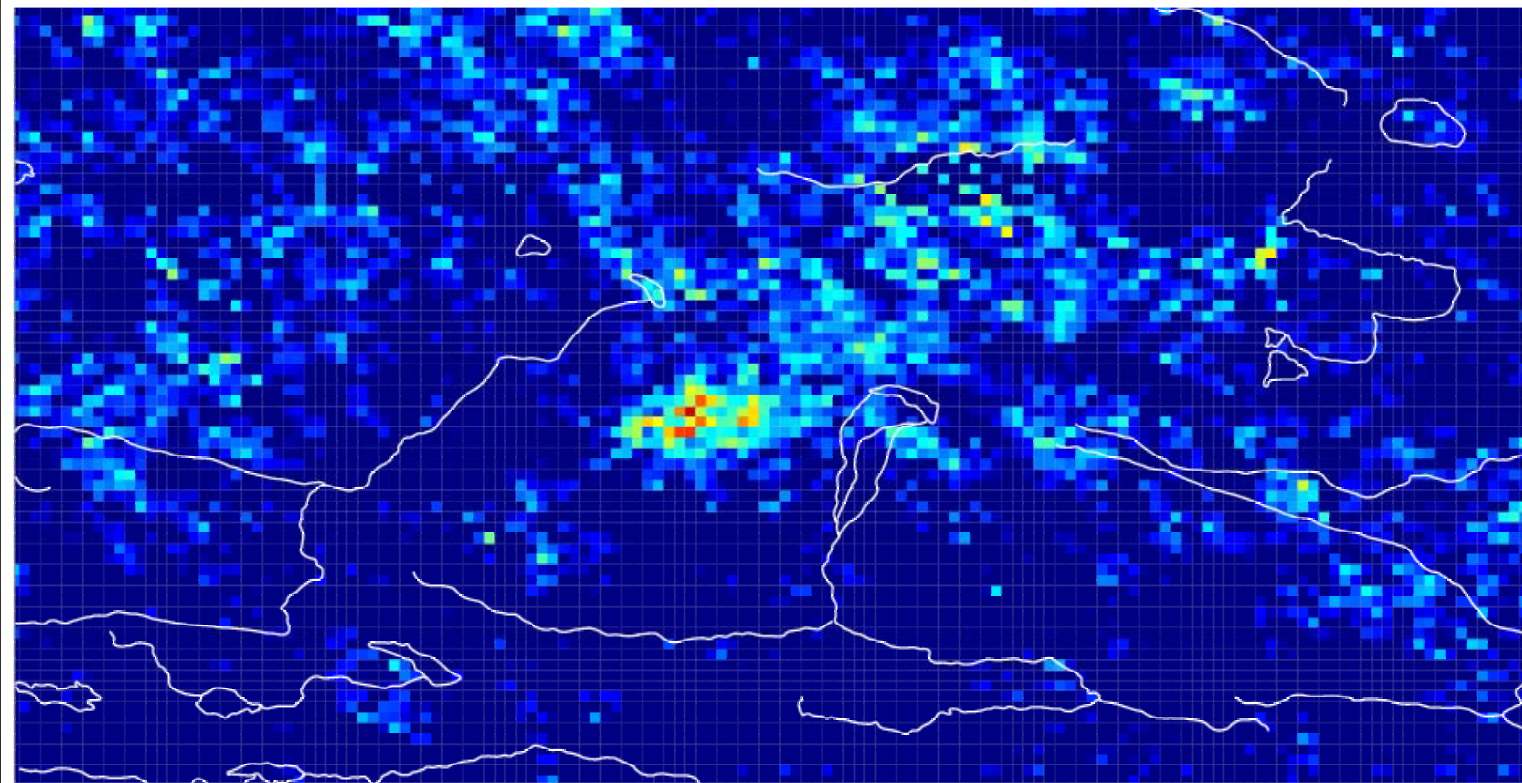
BrO August 2006 – fitting uncertainties



Tropospheric BrO – Salt Lakes: Dead Sea 07/2005

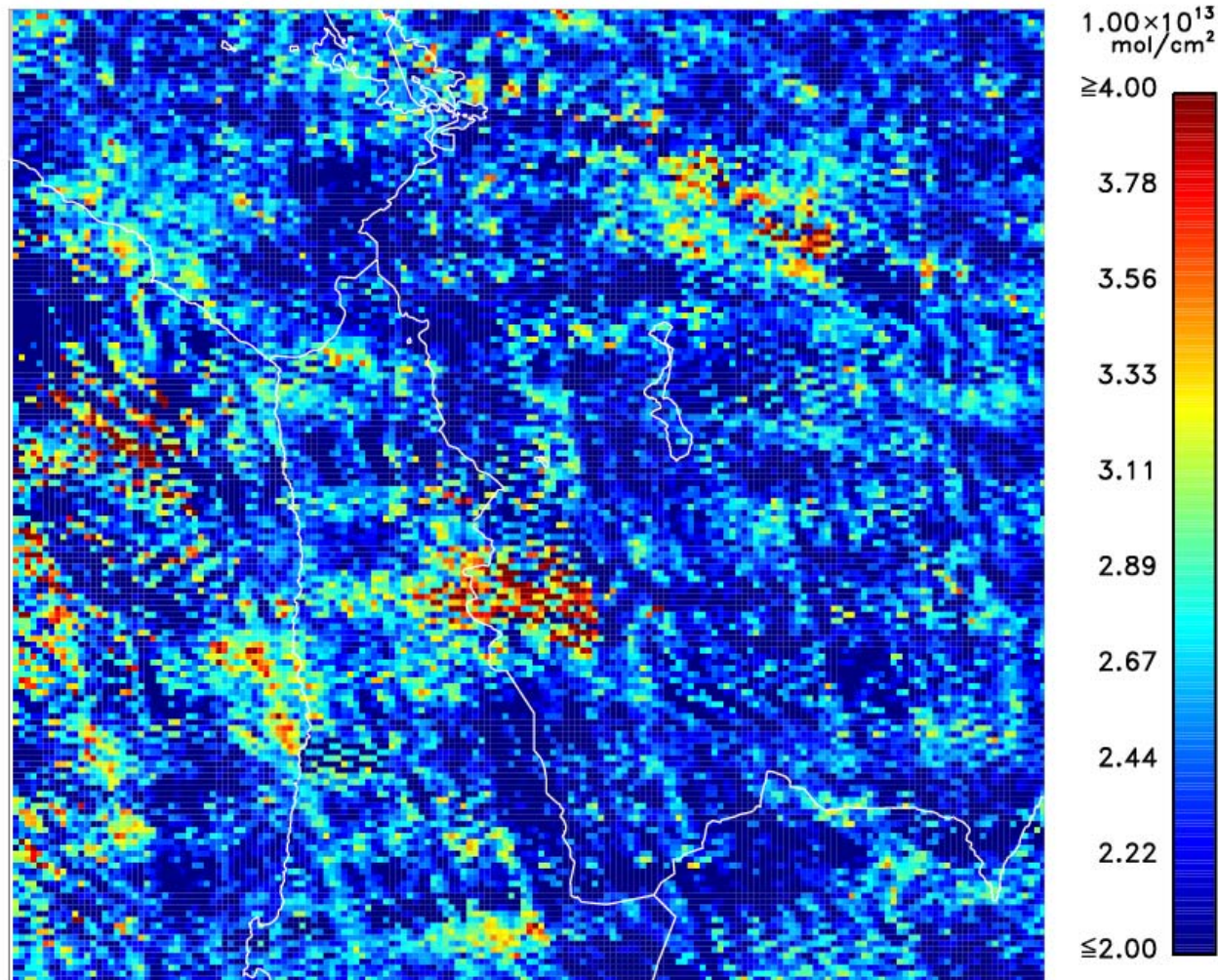


Tropospheric BrO – Salt Lakes: Tibet 07+08/2005



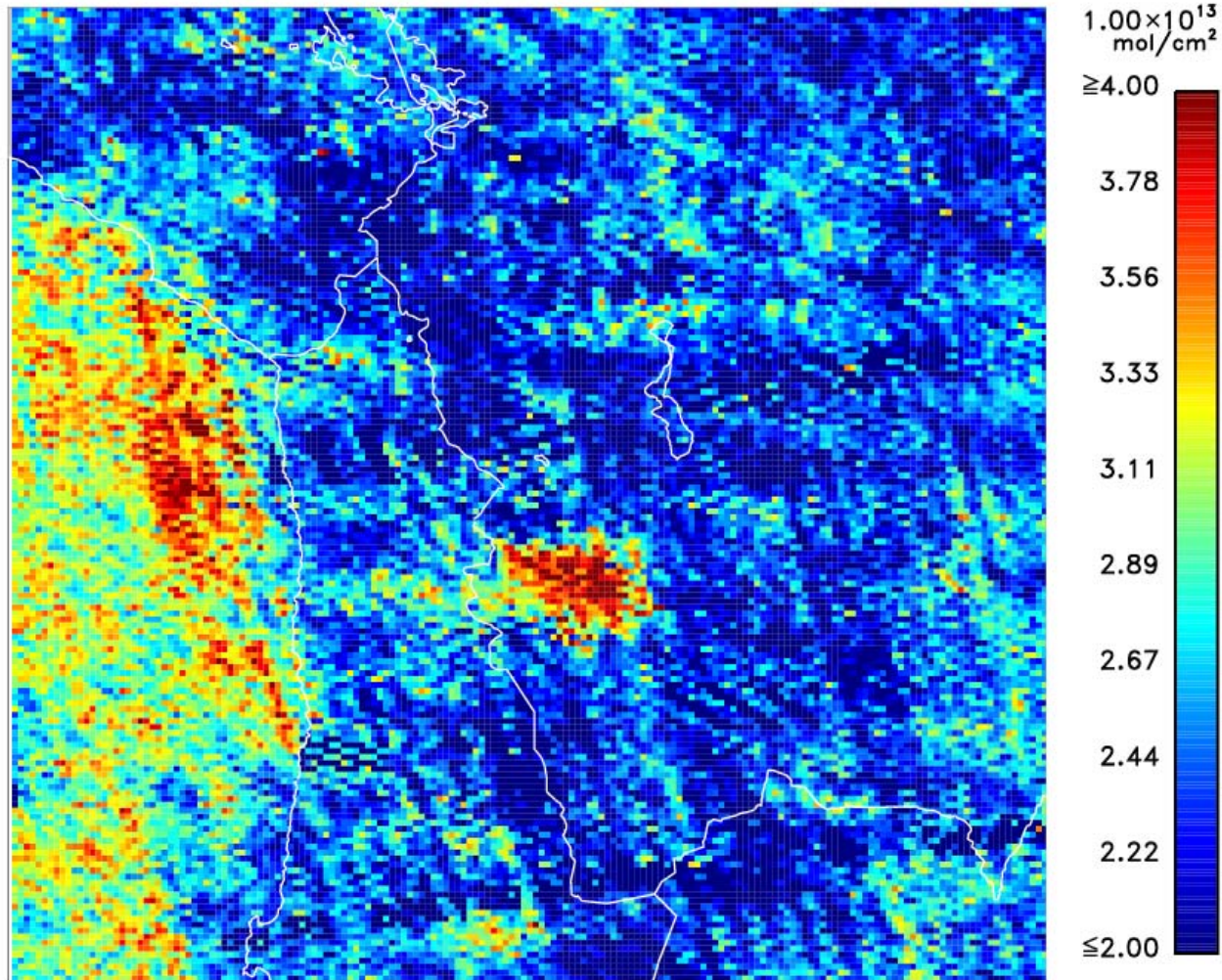
Tropospheric BrO – Salt Lakes: Bolivia 08/2006

Cloud Fraction $\leq 10\%$



Tropospheric BrO – Salt Lakes: Bolivia 08/2006

No Cloud Screening



BrO Movie: 08/01-10/09/2006 (tracks 9-52 only)

